APPLN. TITLE: OBJECT OF STREET OF ST

INVENTOR(S): JOHN C. FIDDLES, ET AL. APPLICATION SERIAL No: 09/902,460

SHEET 1 of 8

## FIG. I-I

Human Basic Fibroblast Growth Factor

10	20	3 0	4 0	50	60	70
AATTCATGCI	TETTTETETE	CTTTTGTTGG	TAGACGACTT	CAGCSTCTGT	CCTTTAATTT	TARAGTTTAT
8.3	an	100	110	129	130	140
	TACCCCTCGT	CTTTTGGTGA	TTTAGAGATT	TTCAAAGCCT	GGTGTGAGAGG.	UPI COMMOMORSADA
150		170				210
TTGGATTGCA	ACTTCTCTAC	TTTGGGGTGG	AAACGGCTTC	TCCGTTTTGA	AACGCTAGCG	GGGAAAAAAT
220	230	240	250	260	276	280
		AACTTTTAAA	AGTTGAGTCA	CGGCTGGTTG	CGCACGAAAA	- GCCCCCCACT
290	3.0.0	310	320	3.3.0	340	35)
STSSAGAAS	COTAAACGT	ortreseris	TSCCCCCT	63000000000	SACTTTTCCC	00ATAA 3 3 3 3
360	370	380	390	400	4 * ^	420
		CAAAGCCCTG				
430		450				
0000000000	ACTGAGGGG	GSCTCCCCGG	CGGAGTGATG	TOSCOCCUTT	GUSTSTTSTS	CCCGAAJICI
500	510	520	530	5.40	550	560
		CAGAAAACCC	GAGCGAGTAG	gapagagaga	GCAGGAGGGA	- GGAGAACTGG
570		590			620	
GGGCGCGGGA	GGCTGGTGGG	TOTOSOGGGT	GGAGATGTAG	AAGATGTGAC	Georgeogees	GGCGGGTGGC
6:0	650	860	670	557	690	700
AGATTAGGGG	ACGCTGCCC	GCGGTTGCAA	COGGATOCCG	GGCGCTGCAG		
710		730				
ASSISSIST	GGCGGAGACA	CCSATCTGTG	AACCCCAGGT	accaeeeee	caddicadaa	CGCACCAGGG
780	790	800	810	820	830	840
						: 0607630693
			0.0.1			
857						910 Atbottoble :
5 <b>5 5 5 A 5</b> A 5 A 5 A 5			. )( 100000			المرزوات والوال
923	933	940	950	360		
03003337 M	1 0030369801	CCABOGGETO	SSCCATCREG	- 00000000000	OCASCSACC	ATO SCA SIC
						met Ala Ala
5 8 3		999		1.52.3		:23
35G A30 A3	ed Add Add d	193 JJJ 536	TTS CCC GAG	COAT COT GO	d Add doing	. 6. z 100. granin 116
Bly Ber i.	le shi bhí i	e. PtJ Ala	Leu Pro Ölü	. Aug Giy Ği	y cêr ôly A	via Phe Pil
10:		1059 DAC 000 AAG	CCC CMC MAC			
		ksp Pro Lys				
	,	+ -/2	, , .	, - ,		

APPLN. FILING DATE: JULY 9, 2001

TITLE: HUMAN BASIC FIBROBLAST GROWTH FACTOR ANALOG

INVENTOR(S): JOHN C. FIDDLES, ET AL. APPLICATION SERIAL NO: 09/902,460

SHEET 2 of 8

## FIG. 1-2

	.1.9		1134	1149
iggo Atto CAC CCC GAC GGC	CGA GIT GAC	000 010 000 010	u Tue Sur Asi	a Pro His T'm
TOO ATO CAC COO GAC GGC Aig lie His Pro Asp Gly	Arg Val Asp	CIA AST MES OF	a the net wee	
1164	1	179	1194	
		CON COOR CONC. TO	T A III A A A A	a bro ror gor
AAG CTA CAA CTT CAA GCA bys Leu Glo Leu Glo Ala	can din Ard	Gly Val Val Se	r ile Lys Gly	y Val Cys Ala
Dys ded our ded din Ale				
, , , ,	1	1239	125	4
1224 AAC COT TAC CTO GOT ATC		CON NON CTA CT	C COM MOM AA.	A TOT GTT AUG
AAC CUT TAC CTU GCT ATC	AAS GAA GAI	CLU ARR TEN TE	D Ala Ser Lv	s Cvs Val Thr
AAC COT TAC CTO GOT ATO Ash Arg Tyr Leu Ala Met	Lys Giu Asp	Gra yrd reg he	a mia act a,	2 212
		1299		
1269	1284	1299		* *** *** ****
	GAA CGA TTG	GAA TCT AAT AA	O TAU AAT AU	I TAU COO LOA
HAT GAG TUT TTO TTT TTO Asp Glu Cys Phe Pne Ph	Giu Arg Leu	Glu Ser Ash As	n tyr Asa Ia	C IAt Wid ger
Wat are chaired and and				
	2.2.4	135	19	1374
HASS AAA TAU AGS AJT TG	B TAT STY 9-A	.15 AAA CSA TE	a ola ola ov	Properties (1)
AGO AAA TAU AGO AGT TG Arg bys Tyr Thr Ser Dr	p Tyr Val Ard	Ded Dis Kra in	er orly ore el	. 2/2 242 241
***************************************				1434
1349	1404		1419	7434
		CONTRACT	מית מוכב באות ידים	TO COUNTY AALL AGE.
TOO AMA ACA GUA COT GG Ser bys Thr Gly Pre Gl	, cin fus Ala	Tie Leu Phe Le	eu Pro Met Se	r Ala Lys Ser
- Sec Lys intoury from or	y	=		
		1.170 1.33	an 1447	1.508
		1.170 1.33	an 1447	1.508
		1.170 1.33	an 1447	1.508
1450 TJA TTT CAATGGCTA? ATC	1460 TARTUTO ATTUS	1470 148 ACATS AAASAASAA	BO 1496 NG TATATITUA:	1500 AMATEMPOTEA
1450 TJA TTT CAATGGCTA? ATC	1460 TARTUTO ATTUS	1470 148 ACATS AAASAASAA	BO 1496 NG TATATITUA:	1500 AMATEMPOTEA
1450 TUA TTT FAATGOCTAT ATC	1460 TAA PUTO   APTO 3.	1470 148 ACATS ARASAASA	BO 1490 NG TATATITUA:	: 1500 : ALATTTOTIA :560 ::570
1450 TUA TTT FAATGOCTAT ATC	1460 TAA PUTO   APTO 3.	1470 148 ACATS ARASAASA	BO 1490 NG TATATITUA:	: 1500 : ALATTTOTIA :560 ::570
1450 TUA TTT CAATGOCTAP ATC 1510 1520 ATGAGAGTAA AAGAAAATAA	1460 TAATUTG ATTTE 1530 ATGTSTATAG CT	1470 149 AJATO AAAGAAGA 1540 CAGTTTGG ATAAT	30 1495 RO TATATITUA: 1550 : TGGTC AAAGAA	1500 AMANINTOTIA 1560 1570 IDIT TTATCCAGTA
1450 TUA TTT CAATGGCTAC ATC 1510 1520 ATUAGAGTAA AAGAAAATAA	1460 TAATUTS ATTIS 1530 ATGTSTATAG CT	1470 148 ACATO ARAGRAGA 1540 CAGTTTGG ATAAT	1490 NO TATATITUTA: 1550 : TGGTC AAAGAA	1500 LAMANTTHOTOA L560 1570 TTTT TTATCCAGTA
1450 TUA TTT CAATGGCTAC ATC 1510 1520 ATUAGAGTAA AAGAAAATAA	1460 TAATUTS ATTIS 1530 ATGTSTATAG CT	1470 148 ACATO ARAGAAGA 1540 CAGTTTGG ATAAT	1490 NO TATATITUTA: 1550 : TGGTC AAAGAA	1500 LAMANTTHOTOA L560 1570 TTTT TTATCCAGTA
1450 TUA TTT FAATGOOGA TTT AUT 1510 1520 ATGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	1460 TAATUTS ATTTS  1530 ATGTSTATAG CT  1600 CASTAAABAA AA	1470 148 ACATS AAASAASA 1540 CAGTTTGG ATAAT 1610 ATAACAAA AGTTG	30 1495 AD TATATIOTAS 1550 S TGGTC AAACAA 1620 TAAAA TGTATA	1500 LAMINITTOTIA 1560 1570 ITTT TTATCCAGTA 1630 1640 ITTT JECTITTATA
1450 TUA TTT CAATGOCTAT ATO 1510 1570 ATUAGASTAA AAGAAAATAA 1560 1590 STAAAATATS TAAGGATGCC	1460 TAATUTS ATTTS  1530 ATGTSTATAG CT  1600 CASTAAABAA AA	1470 148 ACATO ARADRAGA  1540 CAGTTTGG ATAAT  1610 LATAACAAA AGTTG	30 TATATIOTA:  1550 TGGTC AAAGAA  1620 TAAAA TGTATA	1500 1500 1500 1570 1570 1570 1630 1640 1700 1710
1450 TUA TTT CAATGOCTAT ATO 1510 1570 ATUAGASTAA AAGAAAATAA 1560 1590 STAAAATATS TAAGGATGCC	1460 TAATUTS ATTTS  1530 ATGTSTATAG CT  1600 CASTAAABAA AA	1470 148 ACATO ARADRAGA  1540 CAGTTTGG ATAAT  1610 LATAACAAA AGTTG	30 TATATIOTA:  1550 TGGTC AAAGAA  1620 TAAAA TGTATA	1500 1500 1500 1570 1570 1570 1630 1640 1700 1710
1450 TUA TTT CAATGOCTAT ATO 1510 1570 ATUAGASTAA AAGAAAATAA 1560 1590 STAAAATATS TAAGGATGCC	1460 TAATUTS ATTTS  1530 ATGTSTATAG CT  1600 CASTAAABAA AA	1470 148 ACATO ARADRAGA  1540 CAGTTTGG ATAAT  1610 LATAACAAA AGTTG	30 TATATIOTA:  1550 TGGTC AAAGAA  1620 TAAAA TGTATA	1500 1500 1500 1570 1570 1570 1630 1640 1700 1710
1450 TUA TTT PAATGOTAS ATG  1510 1520 ATUAGAGTAA AAGAAATAA 1580 1590 STAAAATATG TAAGUATGOC 1680 1660 TTUGATGTGC TGTTACCGAG	1460 TAATUTO ATTIO  1530 ATGTGTATAG CT  1600 CASTAAAGAA AA	1470 148 ACATO ARAGRAGA  1540 CAGTTTGG ATAAT  1610 ATAACAAA AGTTG MAGAGCAAT GATCT	1550 : 1496 1550 : 1550 : 1620 1620 TAAAA TOTATA' 1690 TTTTC ACGCAT	1500 1500 1500 1570 1570 1570 1630 1640 1700 1700 1710 1710 1710
1450 TUA TTT CAATGGCTAT ATC  1510 1520 ATUAGAGTAA AAGAAAATAA  1580 1590 GTAAAATATG TAAGGATGCC  1680 1680 TTGCATCTGC TGTTACGAG	1460 TAATUTS ATTTS  1530 ATGTGTATAG CT  1600 CASTAAASAA AA  1670 TJAASCTTAC CT	1470 149 ACATS MAASAASA  1540 CAGTTTGG ATAAT 1610 ATAACAAA MSTTS 1680 MAGAGCAAT GATCT	1550 : 1496 1550 : 1550 : 1620 TGGTC AAAGAA' 1620 TAAAA TGTATA' 1590 TTTTC ACGCAT	1500 1570 1570 1570 1570 1630 1630 1630 1630 1630 1640 1700 1710 1710 1710 1730
1450 TUA TTT CAATGGCTAT ATC  1510 1520 ATUAGAGTAA AAGAAAATAA  1580 1590 GTAAAATATG TAAGGATGCC  1680 1680 TTGCATCTGC TGTTACGAG	1460 TAATUTS ATTTS  1530 ATGTGTATAG CT  1600 CASTAAASAA AA  1670 TJAASCTTAC CT	1470 149 ACATS MAASAASA  1540 CAGTTTGG ATAAT 1610 ATAACAAA MSTTS 1680 MAGAGCAAT GATCT	1550 : 1496 1550 : 1550 : 1620 TGGTC AAAGAA' 1620 TAAAA TGTATA' 1590 TTTTC ACGCAT	1500 1570 1570 1570 1570 1630 1630 1630 1630 1630 1640 1700 1710 1710 1710 1730
1450 TUA TITO CAATGGCTAC ATC  1510 1520 ATUAGASTAA AAGAAAATAA  1560 1590 STAAAATATG TAACGATGCC  1650 1661 TTCCATCTGC TOTTACCGAG	1460 TAATUTS ATTTS  1530 ATGTGTATAG CT 1600 CASTAAASAA AA 1670 TJAASCCTAC CT 1740 ATGTTTAGAA AA	1470 148 ACATO ARAGAAGA  1540 CAGTTTGG ATAAT  1610 ATAACAAA AGTTG AGAGCAAT GATCT  1750 ACAAAATTT CTTCA	1550	1500 ALANTTHOTTA  1560 1570 TTATCCAGTA  1640 TTOT JECTTTATA  1700 1700 TTGC TTTATTCUAA  1770 1780 TAGAAAAATI
1450 TUA TITO CAATGOCTAT ATC  1510 1520 ATUAGAGTAA AAGAAAATAA  1580 1590 GTAAAATATG TAAGUATGCC  1680 1660 TITOCATOTGC TOTTACCGAG  1720 1730 AAGAGGCTTT TAAAAATGTGC	1460 TAATUTS ATTTS  1530 ATGTGTATAG CT  1600 CASTAAAGAA AA  1670 TJAAGCTGTAC CT	1470 148 ACATS ARASAASA  1540 CAGTTTGG ATAAT  1610 ATAACAAA AGTTG MAGAGCAAT GATCT  1750 ACAAAATTT CTTCA	1590 (1490) 1590 (1620) TABABA TOTATA 1590 TTTTC ACCCAT	1500 1570 1570 1570 1570 1570 1571 1570
1450 TUA TITO CAATGOCTAT ATC  1510 1520 ATUAGAGTAA AAGAAAATAA  1580 1590 GTAAAATATG TAAGUATGCC  1680 1660 TITOCATOTGC TOTTACCGAG  1720 1730 AAGAGGCTTT TAAAAATGTGC	1460 TAATUTS ATTTS  1530 ATGTGTATAG CT  1600 CASTAAAGAA AA  1670 TJAAGCTGTAC CT	1470 148 ACATS ARASAASA  1540 CAGTTTGG ATAAT  1610 ATAACAAA AGTTG MAGAGCAAT GATCT  1750 ACAAAATTT CTTCA	1590 (1490) 1590 (1620) TABABA TOTATA 1590 TTTTC ACCCAT	1500 1570 1570 1570 1570 1570 1571 1570
1450 TUA TIT CAATGGCTAC ATC  1510 1520 ATUAGASTAA AAGAAAATAA  1560 1590 STAAAATATG TAAGGATGCC  1680 1661 TTCCATCTGC TGTTACCGAG  1720 1730 AAGAGGCTTT TAAAAATGTGC	1460 TAATUTS ATTTS  1530 ATGTGTATAG CT 1600 CASTAAASAA AA 1670 TJAASCOTAC CT 1740 ATGTTTAGAA AA 1810	1470 148 ACATO ARAGAACA  1540 CAGTTTGG ATAAT  1610 ATAACAAA AGTTG AGAGCAAT GATCT  1750 ACAAAATTT CTTCA	1550 : 1496 1550 : TGGTC AAACAA' 1620 TAAAA TGTATA' 1690 TTTTC ACGCAT 1760 TGGAA ATCATA	1500 1570 1570 1570 1570 1570 1570 1570
1450 TUA TIT CAATGGCTAC ATC  1510 1520 ATUAGASTAA AAGAAAATAA  1560 1590 STAAAATATG TAAGGATGCC  1680 1661 TTCCATCTGC TGTTACCGAG  1720 1730 AAGAGGCTTT TAAAAATGTGC	1460 TAATUTS ATTTS  1530 ATGTGTATAG CT 1600 CASTAAASAA AA 1670 TJAASCOTAC CT 1740 ATGTTTAGAA AA 1810	1470 148 ACATO ARAGAACA  1540 CAGTTTGG ATAAT  1610 ATAACAAA AGTTG AGAGCAAT GATCT  1750 ACAAAATTT CTTCA	1550	1500 1570 1570 1570 1570 1570 1570 1570
1450 TUA TIT CAATGGCTAC ATC  1510 1520 ATUAGASTAA AAGAAAATAA  1560 1590 STAAAATATG TAAGGATGCC  1680 1661 TTCCATCTGC TGTTACCGAG  1720 1730 AAGAGGCTTT TAAAAATGTGC	1460 TAATUTS ATTTS  1530 ATGTGTATAG CT 1600 CASTAAASAA AA 1670 TJAASCOTAC CT 1740 ATGTTTAGAA AA 1810	1470 148 ACATO ARAGAACA  1540 CAGTTTGG ATAAT  1610 ATAACAAA AGTTG AGAGCAAT GATCT  1750 ACAAAATTT CTTCA	1550	1500 1570 1570 1570 1570 1570 1570 1570
1450 TUA TIT CAATGGCTAC ATC  1510 1520 ATUAGASTAA AAGAAAATAA  1560 1590 STAAAATATG TAAGGATGCC  1680 1661 TTCCATCTGC TGTTACCGAG  1720 1730 AAGAGGCTTT TAAAAATGTGC	1460 TAATUTS ATTTS  1530 ATGTGTATAG CT 1600 CASTAAASAA AA 1670 TJAASCOTAC CT 1740 ATGTTTAGAA AA 1810	1470 148 ACATO ARAGAACA  1540 CAGTTTGG ATAAT  1610 ATAACAAA AGTTG AGAGCAAT GATCT  1750 ACAAAATTT CTTCA	1550	1500 1570 1570 1570 1570 1570 1570 1570
1450 TUA TTO CAATGOCTAT ATO  1510 1520 ATUAGATTAA AAGAAATAA  1560 1590 STAAAATATG TAAGUATGCC 1660 TTOCATCTGC TGTTACCCAG 1720 1730 AAGAGGCTTT TAAAATGTGC ACAGTGAGAA GTGTAATAAA 1861 4800 AAGAGATATAA AFGCJAACTT	1460 TAATUTO ATTTO.  1530 ATGTGTATAG CT 1600 CASTAAAGAA AA 1670 TJAAGCTTAC CT 4740 ATGTTTAGAA AA 1810 TJAAGAATO T	1470 148 AJATJ AAAJAAJA  1540 CAGTTTGG ATAAT  1610 ATAACAAA AGTTG  AGAGCAAT GATCT  1750 AJAAAATTT CTTGA  1820 JJACTALTT GTTAT	1550 1496 1550 1 1620 TARACAA 1620 TOTATA' 1690 ACGCAT 1760 ACGCAT 1760 ACGCAT 1760 ACGCAT 1760 ACGCAT 1760 ACGCAT 1760 ACGCAT	1500 1570 1570 1570 1570 1570 1570 1570
1450 TJA TTT CAATGGCTAT ATC  1510 1520 ATGAGAGTAA AAGAAAATAA  1580 1590 GTAAAATATG TAAGGATGGC  1680 1680 TTGCATGTG TGTTACCGAG  1720 1730 AAGAGGCTTT TAAAATGTGC  1090 1830 ACAGCGTTT TAAAATGTGC ACAGCGAGAG GTTTAATTAA	1460 TAATUTS ATTICE  1530 ATGTSTATAG CT  1600 CASTAAASAA AA 1670 TJAASCTTAC CT  1740 ATGTTTAGAA AA 1810 TSCAAAASATO TS	1470 148 ACATO ARADAGA  1540 CAGTTTGG ATAAT 1610 ATAACAAA AGTTG AGAGGAAT GATCT ACAAAATTT CITCA 1820 ICACTACTACT ICACTACTACT 1830 TTCATAGTT ETATA	1550 1496 TGGTC AAAGAA' 1620 TAAAA TGTATA' 1690 TTTTTG AGGGAT 1760 TGGAA ATCATA 1830 TGGAA (1630)	1500 1570 1570 1570 1570 1570 1570 1570
1450 TUA TTO CAATGOCTAT ATO  1510 1520 ATUAGATTAA AAGAAATAA  1560 1590 STAAAATATG TAAGUATGCC 1660 TTOCATCTGC TGTTACCCAG 1720 1730 AAGAGGCTTT TAAAATGTGC ACAGTGAGAA GTGTAATAAA 1861 4800 AAGAGATATAA AFGCJAACTT	1460 TAATUTS ATTICE  1530 ATGTSTATAG CT  1600 CASTAAASAA AA 1670 TJAASCTTAC CT  1740 ATGTTTAGAA AA 1810 TSCAAAASATO TS	1470 148 ACATO ARADAGA  1540 CAGTTTGG ATAAT 1610 ATAACAAA AGTTG AGAGGAAT GATCT ACAAAATTT CITCA 1820 ICACTACTACT ICACTACTACT 1830 TTCATAGTT ETATA	1550 1496 TGGTC AAAGAA' 1620 TAAAA TGTATA' 1690 TTTTTG AGGGAT 1760 TGGAA ATCATA 1830 TGGAA (1630)	1500 1570 1570 1570 1570 1570 1570 1570

ing Date: July 9, 2001 TITLE: HUMAN BASIC FIBROBLAST GROWTH FACTOR ANALOG INVENTOR(S): JOHN C. FIDDLES, ET AL. SHEET 3 of 8

FIG. 2

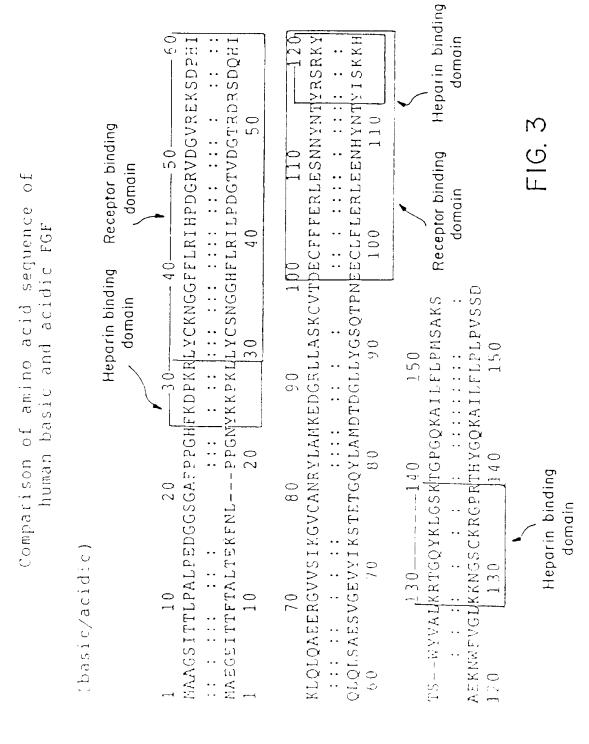
Human Acidic FGF

APPLICATION SERIAL NO: 09/902,460

190	ATT	TTG	TGC	CTT	TGC	TGG	AAG	AAC	CGA	CTA	CAG	GTT	TOT	TCA	ATT	TCT	S4 TAC
AGT	CTT	GAA	AGC	GCC	ACA	AGC	AGC	81 AGC	TGC	TGA	GCC					GAA Glu	
ACC Thr	ACC Thr	ITC Phe	ACA The 10	GCC Ala	CTG Leu	ACC Thr	GAG Glu	135 AAG Lys	TTT Phe	AAT Asn	cms Leu	CCT Fro	0 DA P CO 2 O	GGG Gly	AAT Asn	TAC Tyr	162 AAG Uys
		AAA Lys															
		ACA Thr															
		GTG Ala															
		GCC Ala															
		076 Seu															
AA J Lyu	ANS Lyu	CAT	GIA Ala	316 316	AAG Sys 125	AAT Ash	TGG Tip	459 TTT Phe	orr Val	asc Gly	ura Seu	AAS Lys	AA.C Lys	AAT Asn	343 317 135	AUG Set	496 T.Y.a
						C	די מיזי	513 GGC	CAG	AAA	TOA	አተር	TIG		ב מי ב	0.50	540
MAA Uys	Atg	our sly	Pro	ag a A s g	ACT Thr	His	Ty:	Gly	Gln	Lys	Ala	11-	Les	9 h H			191
Uys CCA	A 0 9	00T 01y 00T 200	Pro	A ( g JAT	ACT Thr TAA	His	Tyt 140	51y	Gln	Lys	Ala	: 1 -	Les	Phe	Sel		

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APPLICATION SERIAL NO: 09/902,460



APPLICATION SERIAL NO: 09/902,460SHEET 5 of 8APPLICATION SERIAL NO: 09/902,460SHEET 5 of 8

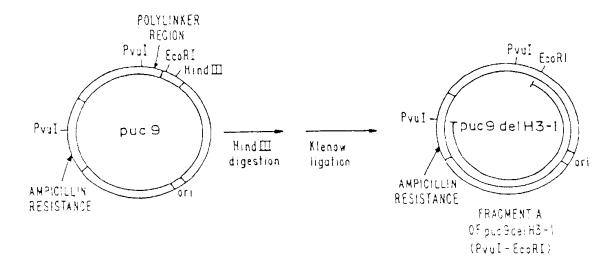
APPLN ING DATE: JULY 9, 2001

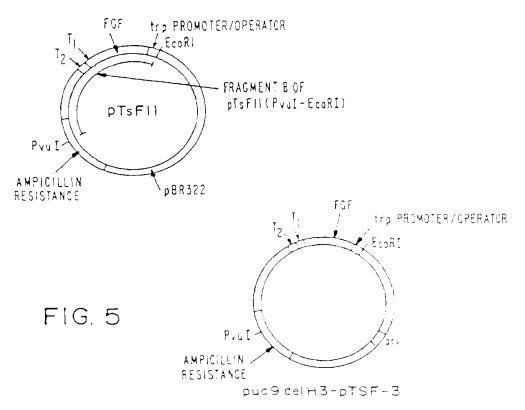
MAN BASIC FIBROBLAST GROWTH FACTO

ALO

INVENTOR(S): JOHN C. FIDDLES, ET AL. APPLICATION SERIAL NO: 09/902,460

SHEET 6 of 8





ING DATE: JULY 9, 2001

TITLE: HUMAN BASIC FIBROBLAST GROWTH FACTOR ANALOG

Inventor(s): John C. Fiddles, Et al. Application Serial No: 09/902,460

SHEET 7 of 8

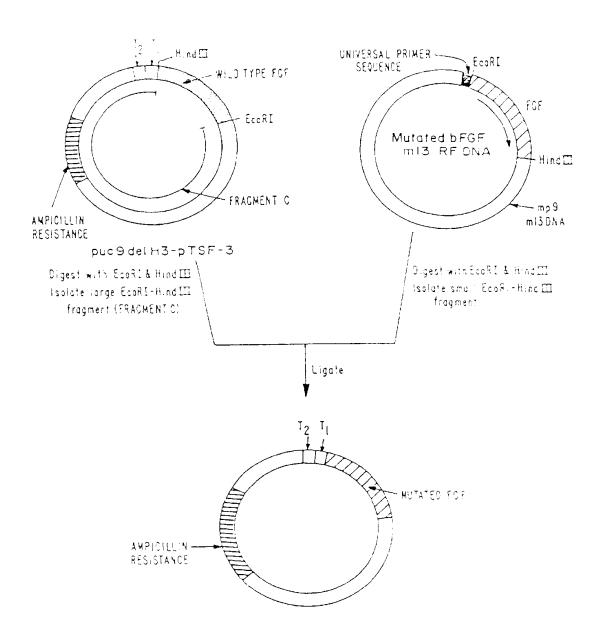


FIG. 6

Vabilication Serial No:(08/902,460)Sheet 8 of 8Title:Human basic fibrobles, et al.Title:Human basic fibrobles, et al.ApplicationSheet 8 of 8

